

CIRCUITS AND METHODS FOR MATCHING DEVICE CHARACTERISTICS  
FOR ANALOG AND MIXED-SIGNAL DESIGNS

Abstract of the Disclosure

Circuit designs and methods are provided for matching  
5 device characteristics for, e.g., analog or mixed-signal  
semiconductor integrated circuit designs. In particular,  
circuit layout patterns and layout methods are provided  
which enable precise or proportional matching of circuit  
components by uniformly distributing circuit components in  
10 a manner that eliminates or significantly minimizes the  
sensitivity of such circuit components to environmental  
effects and process variations, thereby improving the  
performance of analog and mixed-signal circuits.